

# COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number  
**WO 2005/019552 A1**

(51) International Patent Classification<sup>7</sup>:

**E04B 2/40**

(21) International Application Number:

PCT/AU2004/001134

(22) International Filing Date: 25 August 2004 (25.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003904535 25 August 2003 (25.08.2003) AU

(71) Applicant (for all designated States except US): BUILDING SOLUTIONS PTY LTD [AU/AU]; 3 Production Street, Noosaville, Queensland 4566 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): EMBLIN, Alan, Gayne [AU/AU]; 3 Production Street, Noosaville, Queensland 4566 (AU).

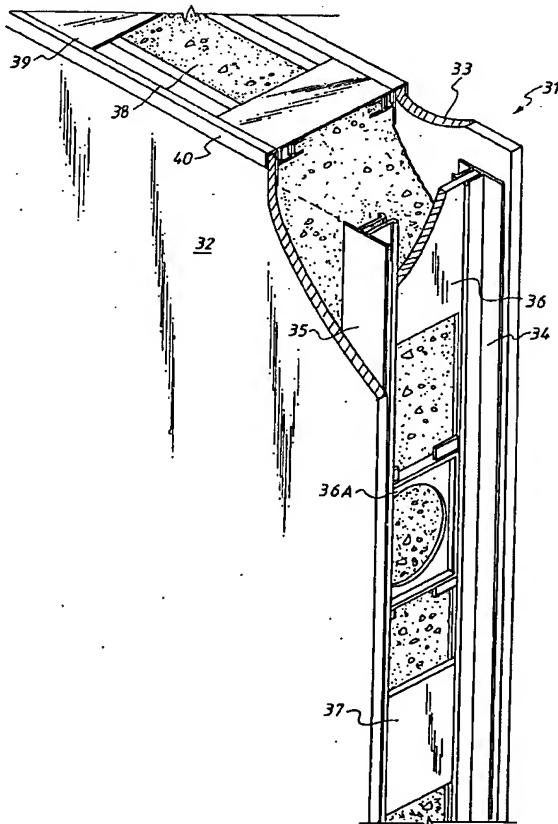
(74) Agents: THOMPSON, Paul M et al.; Davies Collison Cave, Level 3, 303 Coronation Drive, Milton, Queensland 4064 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

*[Continued on next page]*

(54) Title: BUILDING PANELS



(57) Abstract: A building system is described comprising paired studs (20) for attachment to inside surfaces of facing sheets (10, 11) to provide panel formwork for concrete walls. The studs comprise a head (21) and outwardly extending spaced flanges (22, 23) with inwardly directed teeth (26) and lips (24, 25). Spacer elements (30) are engaged with the recess between the flanges and may be formed from off-cuts of sheet material or as specifically formed elements. The latter are formed from hard plastic and in a preferred embodiment (19) are formed as a rectangular box which can be orientated in alternate directions. The system may include end elements (40), internal top and bottom plates (51), internal corners (90), external corners (100) and a shadow line junction between panels. The invention extends to panels formed with the above system and buildings formed from the panels.

WO 2005/019552 A1



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*